

CLAIMS

What is claimed is:

1 1. A locking mechanism for coupling and uncoupling a removable component
2 coupleable to and from a computer device, comprising:
3 a first member selectively positionable between secured and unsecured configurations
4 of the removable component with respect to the computer device; and
5 a second member positionable between first and second configurations, wherein the
6 first configuration extends the second member through the first member in the
7 secured configuration to secure the first member.

1 2. The locking mechanism as recited in claim 1, comprising a pivotable member
2 configured to actuate the second member selectively between the first and second
3 configurations.

1 3. The locking mechanism as recited in claim 1, wherein the removable
2 component is a hot-pluggable device.

1 4. The locking mechanism as recited in claim 1, wherein the first member
2 comprises a lever pivotably coupled to the removable component.

1 5. The locking mechanism as recited in claim 1, wherein the pivotable member is
2 a knob coupled to the removable component.

1 6. The locking mechanism as recited in claim 1, wherein the pivotable member is
2 configured to transition the removable component selectively between an operational
3 configuration and a dormant configuration.

1 7. The locking mechanism as recited in claim 6, wherein the locking mechanism
2 is configured to set the removable component in the dormant configuration during a transition
3 between the secured and unsecured configurations.

1 8. The locking mechanism as recited in claim 6, wherein the dormant
2 configuration is an unpowered configuration and the operational configuration is a powered
3 configuration.

1 9. A locking mechanism for coupling and uncoupling a removable component
2 coupleable to and from a computer device, comprising:
3 a leveraging member configured to at least partially disengage a removable
4 component with respect to a computer device;
5 an engaging member selectively positionable in first and second positions such
6 that the engaging member in the first position at least partially engages
7 with the leveraging member in the first position; and
8 a pivotable member coupled to the engaging member such that pivotal
9 movement of the pivotable member actuates the engaging member
10 along a longitudinal axis of the engaging member.

1 10. The locking mechanism as recited in claim 9, wherein the pivotable member is
2 configured to transition at least one of the removable component and computer device
3 between an operational configuration and a dormant configuration.

1 11. The locking mechanism as recited in claim 10, wherein the pivotable member
2 is electrically coupled to an indicator configured to indicate visually the status of at least one
3 of the computer device and removable component between the operational and dormant
4 configurations.

1 12. The locking mechanism as recited in claim 9, wherein the pivotable member
2 and the leveraging member are coupled to the removable component.

1 13. The locking mechanism as recited in claim 9, wherein the engaging member in
2 the first position extends through the positionable member.

1 14. A system, comprising:
2 a computer device;
3 a removable component engageable and disengageable with the computer device; and
4 a locking assembly, comprising:
5 a first member for at least partially disengaging the removable component with respect
6 to the computer device; and
7 an engaging member positionable between first and second configurations, wherein
8 the engaging member in the first configuration extends through the first
9 member to secure the first member with respect to the computing component.

1 15. The system as recited in claim 14, comprising a pivotable member configured
2 to actuate the engaging member between first and second configurations, wherein the pivotal
3 movement of the pivotable member actuates the engaging member along a longitudinal axis
4 of the engaging member.

1 16. The system as recited in claim 14, wherein the computer device comprises a
2 server.

1 17. The system as recited in claim 14, wherein the computer device comprises a
2 personal computer.

1 18. The system as recited in claim 14, wherein the removable component
2 comprises a memory component.

1 19. The system as recited in claim 14, wherein the removable component
2 comprises a disk-drive.

1 20. The system as recited in claim 14, wherein the removable component
2 comprises a cooling device.

1 21. The system as recited in claim 14, wherein at least one of the first member and
2 the engaging member is coupled to the removable component.

1 22. The system as recited in claim 14, wherein the removable component is hot-
2 pluggable.

1 23. A method of selectively securing a removable component to a computer
2 device, comprising:

3 actuating a locking mechanism such that the locking mechanism actuates a engaging
4 member through a pivotable member configured to selectively position the
5 removable component between secured of unsecured configurations with
6 respect to the computer device.

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1 24. The method as recited in claim 23, wherein actuation comprises pivoting a
2 pivotable member coupled to the engaging member.

1 25. The method as recited in claim 24, wherein actuation comprises translating the
2 pivotal movement of the pivotal member into lateral movement of the engaging member
3 along a longitudinal axis of the engaging member.